

## GERANYL DIPHOSPHATE SYNTHASE LARGE SUBUNIT, AND METHODS OF USE

### Abstract of the Disclosure

5 A cDNA encoding geranyl diphosphate synthase large subunit from  
peppermint has been isolated and sequenced, and the corresponding amino acid  
sequence has been determined. Replicable recombinant cloning vehicles are  
provided which code for geranyl diphosphate synthase large subunit). In another  
aspect, modified host cells are provided that have been transformed, transfected,  
infected and/or injected with a recombinant cloning vehicle and/or DNA sequence  
10 encoding geranyl diphosphate synthase large subunit. In yet another aspect, the  
present invention provides isolated, recombinant geranyl diphosphate synthase  
protein comprising an isolated, recombinant geranyl diphosphate synthase large  
subunit protein and an isolated, recombinant geranyl diphosphate synthase small  
subunit protein. Thus, systems and methods are provided for the recombinant  
15 expression of geranyl diphosphate synthase.